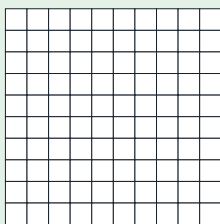


Estimating and measuring the area of irregular shapes

MODULE 5 · MEASURES — LENGTH, AREA, VOLUME, MASS AND CAPACITY

MEASURES

Estimate the area of an irregular shape by **counting squares** on a grid — count whole squares, and count a part as a half if it's about half-covered.



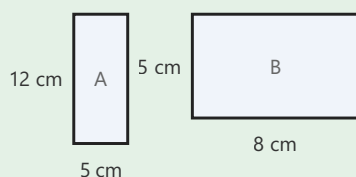
→ Count whole squares first, then pair up part-squares into wholes.

HOW TO ANSWER TODAY

- **L-shape area.** Split the L into two rectangles. Find each area. Add them.
 $(4 \times 3) + (6 \times 2) = 12 + 12 = 24 \text{ m}^2$
- **Area.** Area = length $\times$ width. Write the answer in square units (cm^2 , m^2).
 $5 \text{ m} \times 3 \text{ m} \rightarrow 15 \text{ m}^2$

WARM-UP

1



The caretaker is painting an L-shaped wall-ball court on the school yard. He marks out one rectangle that is **5 cm** by **12 cm** on his plan, and a second rectangle joined onto it that is **8 cm** by **5 cm**. What is the total area of the L-shape on the plan?

2



Saoirse is making a tessellation pattern for the 5th class corridor display. Each tile in her pattern is a rectangle measuring **11 cm** by **5 cm**. What is the area of one tile?